Attorney Dock t No. TAV-2036

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
Cao et al.

Filed: October 6, 2003

Title: NICKEL-BASE ALLOYS AND METHODS OF HEAT TREATING NICKEL-BASE ALLOYS

INFORMATION DISCLOSURE STATEMENT

Pittsburgh, Pennsylvania 15222-5479
October 6, 2003

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

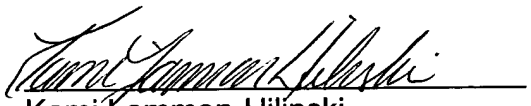
Sir:

Applicants, in accordance with the duty of disclosure pursuant to 37 C.F.R. § 1.56, hereby advises the United States Patent and Trademark Office of the reference(s) listed on the accompanying forms PTO/SB/08A and PTO/SB/08B "Information Disclosure Statement By Applicant." A copy of each reference cited on PTO/SB/08B (non patent literature documents) is herewith enclosed.

The filing of this Information Disclosure Statement shall not be construed to mean that the references presented herewith are prior art to the claims of the present application, and Applicants makes no such admission. Also, under 37

C.F.R. § 1.97(h), the filing of this Information Disclosure Statement "shall not be construed to be an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in § 1.56(b)."

Respectfully submitted,



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Substitute for form 1449A/PTO

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Sheet 1 of 4

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Application Number	
Filing Date	October 6, 2003
First Named Inventor	Wei-Di Cao
Art Unit	
Examiner Name	
Attorney Docket Number	TAV-2036

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number: Number - Kind Code[2] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US 6,328,827 – B1	12-11-2001	Bouzidi et al.	
		US 6,315,846 – B1	11-12-2001	Hibner et al.	
		US 6,193,823 – B1	02-27-2001	Morra	
		US 6,106,767	08-22-2000	Kennedy et al.	
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		US 20030116242- A1	06-26-2003	Harrison et al.	
		US 20030034098- A1	02-20-2003	Henry et al.	

FOREIGN PATENT DOCUMENTS

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Application Number	
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Attorney Docket Number	TAV-2036

U.S. PATENT DOCUMENTS

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		US 20020036037- A1	03-28-2002	Kennedy et al.	

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Examiner Initials*	Cite No.[1]	Foreign Patent Document: Country Code[3]-Number[4]-Kind Code[5] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

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		CAO, U.S. Pat. Application Serial No. 10/144,369, entitled "Nickel-Base Alloy," filed May 13, 2002 and assigned to ATI Properties, Inc.	
		AZADIAN, S. et al. "Precipitation in Spray-Formed IN718," Proceedings of the 5th International Symposium on Superalloys 718, 625, 706 and Various Derivatives, E. A. Loria ed., The Minerals, Metals & Materials Society, Warrendale, PA (2001), pp. 617-626	
		XIE, XISHAN et al. "The Role of Mg on Structure and Mechanical Properties in Alloy 718," Superalloys 1988, S. Reichman et al. eds., The Metallurgical Society (1988), pp. 635-642.	
		ANDRIEU, E. et al. "Influence of Compositional Modifications on Thermal Stability of Alloy 718," Superalloys 718, 625, 706 and Various Derivatives, E. A. Loria ed., The Minerals, Metals & Materials Society, Warrendale, PA (1994), pp. 695-710.	
		"Technical Data Sheet Allvac® 718 Alloy" Allvac, Monroe, NC (2000).	
		R. WARREN, LIU-YING WEI, JOHAN OCKBORN "Interrelationships Between Thermomechancial Treatment, Microstructure and Properties of Nickel Base Superalloys," at http://www.ts.mah.se/forskn/mumat/Research/research_topic_rw.htm. (last updated 02-19-2002).	

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		GUO, ENCAI et al., "Further Studies on Thermal Stability of Modified 718 Alloys," Superalloys 718, 625, 706 and Various Derivatives, E. A. Loria ed., The Minerals, Metals & Materials Society, Warrendale, PA (1994), pp. 721-734.	
		GOU, ENCAI et al., "Improving Thermal Stability of Alloy 718 Via Small Modifications in Composition," Superalloy 718- Metallurgy and Applications, E. A. Loria ed., The Minerals, Metals & Materials Society, Warrendale, PA (1989), pp. 567-576.	
		ANDRIEU, E. et al.,"Effect of Environment and Microstructure on the High Temperature Behaviour of Alloy 718," Superalloy 718- Metallurgy and Applications, E. A. Loria ed., The Minerals, Metals & Materials Society, Warrendale, PA (1989), pp. 241-256.	
		R. COZAR et al., "Morphology of Y' and Y" Precipitates and Thermal Stability of Inconel 718 Type Alloys," Metallurgical Transactions, Vol. 4, Jan. 1973, pp. 47-59.	
		COLLIER, JOHN P. et al., "The Effect of Varying Al, Ti, and Nb Content on the Phase Stability of INCONEL 718," Metallurgical Transactions A, Vol. 19A, July 1988, pp. 1657-1666.	
		COLLIER, JOHN P. et al. "On Developing a Microstructurally and Thermally Stable Iron-Nickel Superalloy," S. Reichman et al. eds., The Metallurgical Society (1988), pp. 43-53 (1988).	
		XIE, XISHAN et al., "The Role of Phosphorus and Sulfur in INCONEL 718," Superalloys 1996, R.D. Kissinger et al. eds., The Minerals, Metals & Materials Society, Warrendale, PA (1996), pp. 599-606.	

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